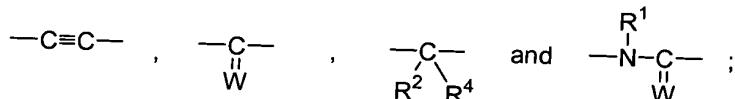
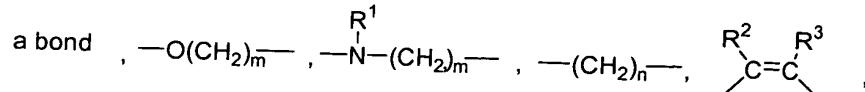


WHAT IS CLAIMED IS:



with the proviso that at least one of X or Y is a bond, and wherein

the subscript m is 0, 1 or 2;

the subscript n is 1 or 2;

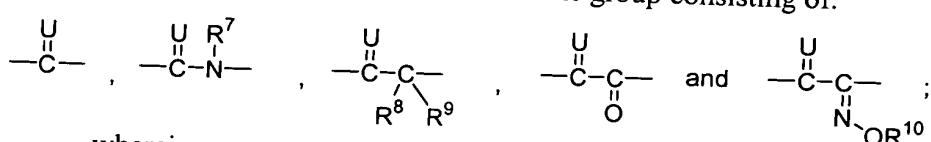
W is a member selected from the group consisting of O, N-OR⁵, N-NR¹R², N-NR¹C(O)R⁶ and N-OC(O)R⁶:

R^1 , R^2 , R^3 , and R^5 are each members independently selected from the group consisting of H, (C_1-C_6)alkyl, aryl, aryl(C_1-C_6)alkyl, heteroaryl and heteroaryl(C_1-C_6)alkyl:

R^4 is a member selected from the group consisting of H, OH, (C_1-C_6) alkyl, (C_1-C_6) alkoxy, amino, (C_1-C_6) alkylamino, di (C_1-C_6) alkylamino, (C_1-C_6) acylamino, and (C_1-C_8) heteroalkyl; and

R^6 is a member selected from the group consisting of H, (C_1-C_6) alkyl, (C_1-C_6) alkoxy, amino, (C_1-C_6) alkylamino, di (C_1-C_6) alkylamino and (C_1-C_8) heteroalkyl; and

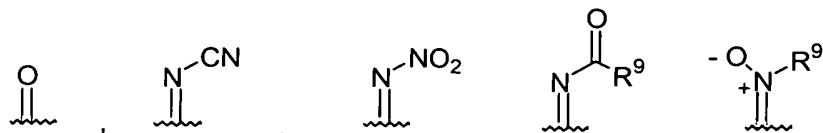
M is a divalent linking group selected from the group consisting of:



wherein

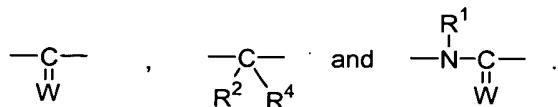
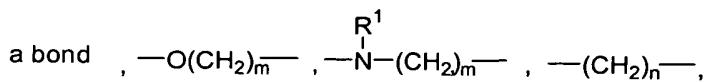
U is a member selected from the group consisting of:

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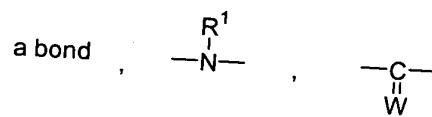


28 R⁷ and R⁸ are each independently members selected from the group
29 consisting of H, OH, (C₁-C₆)alkyl, (C₁-C₆)alkoxy, amino, (C₁-
30 C₆)alkylamino and di(C₁-C₆)alkylamino;
31 R⁹ is a member selected from the group consisting of H, (C₁-C₆)alkyl, aryl,
32 aryl(C₁-C₆)alkyl, heteroaryl and heteroaryl(C₁-C₆)alkyl;
33 R¹⁰ is a member selected from the group consisting of H, (C₁-C₆)alkyl,
34 aryl(C₁-C₆)alkyl and heteroaryl(C₁-C₆)alkyl; and
35 R¹¹ and R¹² are members independently selected from the group consisting
36 of H, (C₁-C₆)alkyl, aryl(C₁-C₆)alkyl, heteroaryl(C₁-C₆)alkyl,
37 C(O)R¹⁴, C(O)OR¹⁴, C(O)-NR¹⁴R¹⁵, S(O)₂R¹³ and S(O)₂NR¹⁴R¹⁵;
38 wherein
39 R¹³ is a member selected from the group consisting of (C₁-C₆)alkyl,
40 (C₁-C₆)heteroalkyl, phenyl and substituted phenyl; and
41 R¹⁴ and R¹⁵ are each members independently selected from the
42 group consisting of H, (C₁-C₆)alkyl and (C₁-C₆)heteroalkyl.
43

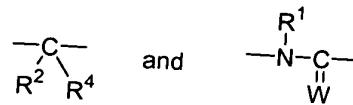
1 2. A compound of claim 1, wherein X and Y are independently
2 selected from the group consisting of:



1 3. A compound of claim 1, wherein X and Y are each independently
2 selected from the group consisting of:



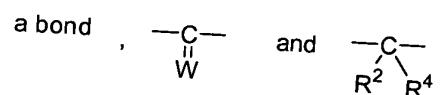
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4. A compound of claim 1, wherein X and Y are each independently selected from the group consisting of:

3



1

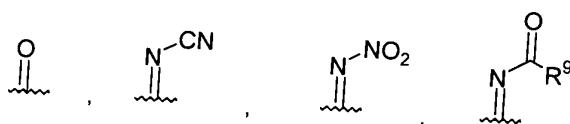
5. A compound of claim 1, wherein M is $\begin{array}{c} U \\ || \\ C-N \\ | \\ R^7 \end{array}$.

1

6. A compound of claim 1, wherein X and Y are each a bond, and M

2

is $\begin{array}{c} U \\ || \\ C-N \\ | \\ R^7 \end{array}$, wherein U is selected from the group consisting of



3



1

7. A compound of claim 6, wherein U is selected from the group consisting of

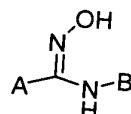
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1

8. A compound of claim 1, said compound having the formula:

2

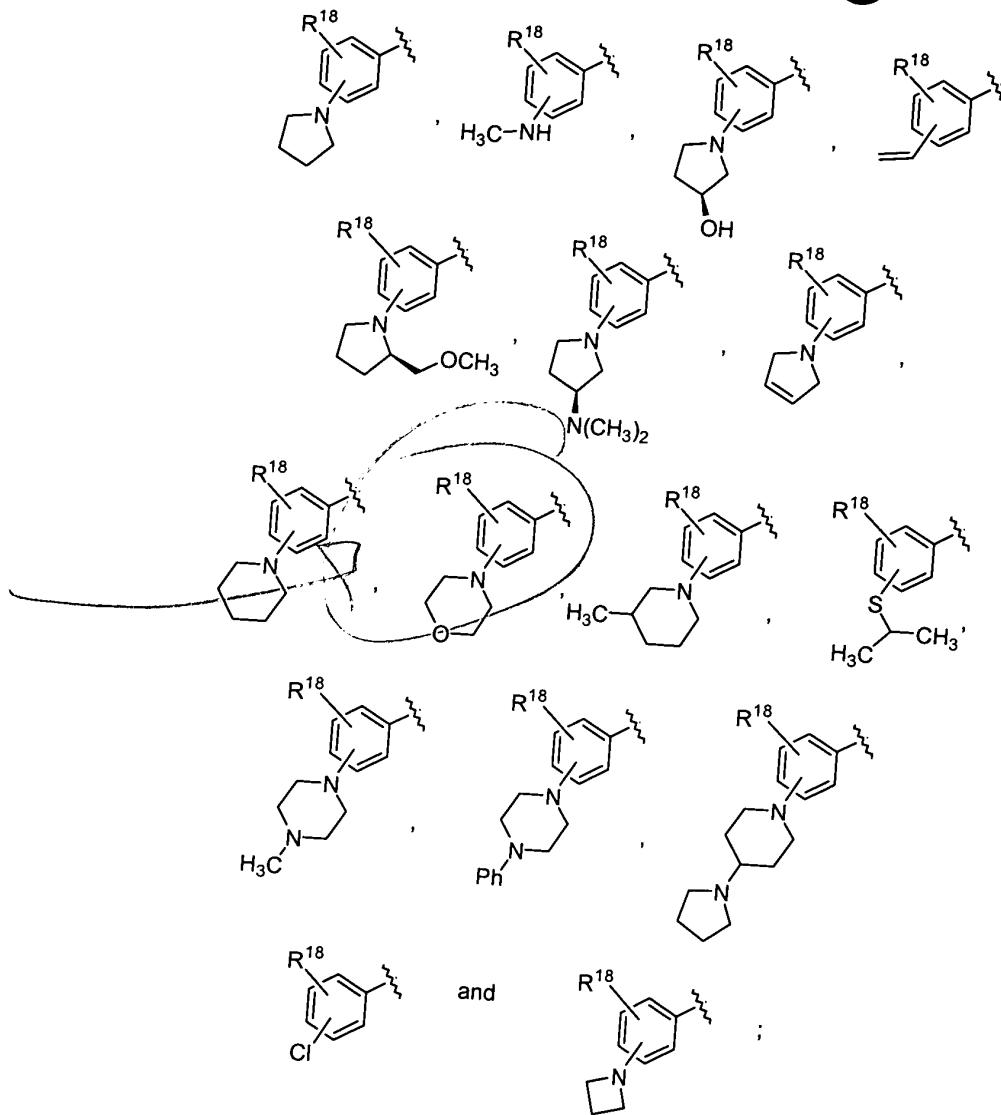


1 **9.** A compound of claim 8, wherein A is a phenyl group substituted
2 with from one to three substituents selected from the group consisting of (C₁-C₄)alkyl,
3 (C₁-C₄)alkoxy, (C₁-C₄)haloalkyl, (C₁-C₄)haloalkoxy, halogen, nitro, phenyl, naphthyl,
4 pyrrolyl, pyrazolyl and -NR¹⁶R¹⁷ wherein R¹⁶ and R¹⁷ are independently selected from
5 the group consisting of hydrogen, (C₁-C₈)alkyl and (C₁-C₈)heteroalkyl or are combined
6 with the nitrogen atom to which each is attached to form a four-, five-, six- or seven-
7 membered ring optionally having additional heteroatoms as ring members and optionally
8 having additional substituents selected from the group consisting of (C₁-C₈)alkyl, (C₁-
9 C₈)heteroalkyl and phenyl.

1 **10.** A compound of claim 8, wherein B is a phenyl group substituted
2 with from one to three substituents selected from the group consisting of (C₁-C₄)alkyl,
3 (C₁-C₄)alkoxy, (C₁-C₄)heteroalkyl, (C₁-C₄)haloalkyl, (C₁-C₄)haloalkoxy, halogen, phenyl
4 and phenoxy.

1 **11.** A compound of claim 8, wherein A is a phenyl group substituted
2 with from one to three substituents selected from the group consisting of (C₁-C₄)alkyl,
3 (C₁-C₄)alkoxy, (C₁-C₄)haloalkyl, (C₁-C₄)haloalkoxy, halogen and -NR¹⁶R¹⁷ wherein R¹⁶
4 and R¹⁷ are independently selected from the group consisting of hydrogen, (C₁-C₈)alkyl
5 and (C₁-C₈)heteroalkyl or are combined with the nitrogen atom to which each is attached
6 to form a four-, five-, six- or seven-membered ring optionally having additional
7 heteroatoms as ring members and optionally having additional substituents selected from
8 the group consisting of (C₁-C₈)alkyl, (C₁-C₈)heteroalkyl and phenyl, and B is a phenyl
9 group substituted with from one to three substituents selected from the group consisting
10 of (C₁-C₄)alkyl, (C₁-C₄)alkoxy, (C₁-C₄)heteroalkyl, (C₁-C₄)haloalkyl, (C₁-C₄)haloalkoxy,
11 halogen, phenyl and phenoxy.

1 **12.** A compound of claim 8, wherein A is selected from the group
2 consisting of substituted or unsubstituted thienyl, substituted or unsubstituted furanyl,
3 substituted or unsubstituted indolyl, substituted or unsubstituted benzothienyl, substituted
4 or unsubstituted benzothienyl, and radicals of the formulae:



5
6 wherein R¹⁸ is a member selected from the group consisting of (C₁-
7 C₄)alkyl, (C₁-C₄)alkoxy, (C₁-C₄)heteroalkyl, (C₁-C₄)haloalkyl, (C₁-C₄)haloalkoxy and
8 halogen.

1
2 13. A compound of claim 8, wherein A is selected from the group
3 consisting of substituted or unsubstituted benzofuranyl, substituted or unsubstituted
4 benzothienyl, substituted or unsubstituted indolyl, substituted or unsubstituted
5 benzimidazolyl, substituted or unsubstituted benzthiazolyl and substituted or
unsubstituted benzoxazolyl.

1
2 14. A method of reducing bacterial growth on a surface, said method
comprising contacting said surface with a compound of claim 1.

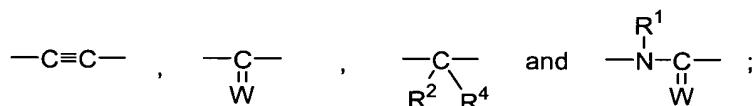
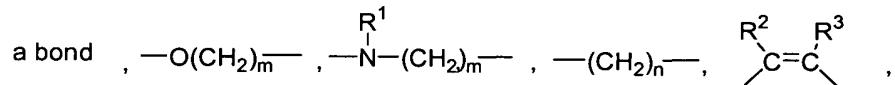
1 **15.** A method of treating a bacterial infection comprising contacting a
2 subject in need of such treatment with an effective amount of a compound having the
3 formula:

4 A-X-M-Y-B

5 or a pharmaceutically acceptable salt thereof, wherein

6 A and B are each members independently selected from the group consisting of
7 substituted and unsubstituted aryl and substituted and unsubstituted
8 heteroaryl;

9 X and Y are each members independently selected from the group consisting of:



11 with the proviso that at least one of X or Y is a bond, and wherein

the subscript m is 0, 1 or 2;

13 the subscript n is 1 or 2;

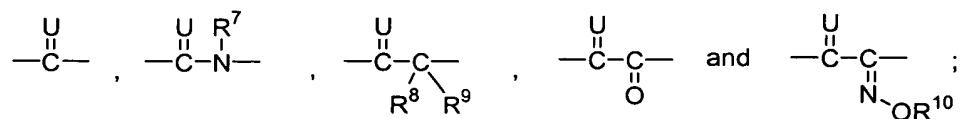
14 W is a member selected from the group consisting of O, N-OR⁵, N-NR¹R²,
15 N-NR¹C(O)R⁶ and N-OC(O)R⁶;

16 R¹, R², R³ and R⁵ are each members independently selected from the group
17 consisting of H, (C₁-C₆)alkyl, aryl, aryl(C₁-C₆)alkyl, heteroaryl and
18 heteroaryl(C₁-C₆)alkyl;

19 R⁴ is a member selected from the group consisting of H, OH, (C₁-C₆)alkyl,
20 (C₁-C₆)alkoxy, amino, (C₁-C₆)alkylamino, di(C₁-C₆)alkylamino,
21 (C₁-C₆)acylamino, and (C₁-C₈)heteroalkyl; and

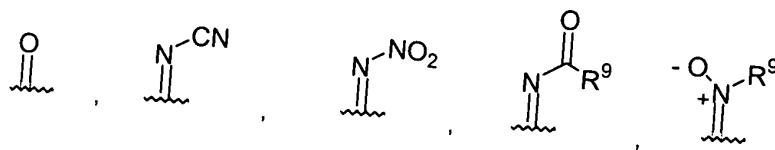
22 R⁶ is a member selected from the group consisting of H, (C₁-C₆)alkyl, (C₁-
23 C₆)alkoxy, amino, (C₁-C₆)alkylamino, di(C₁-C₆)alkylamino and
24 (C₁-C₈)heteroalkyl; and

25 M is a divalent linking group selected from the group consisting of:



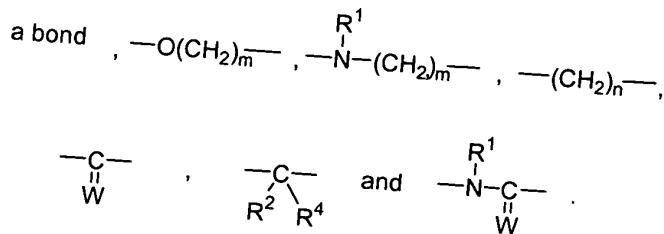
wherein

U is a member selected from the group consisting of:



R^{13} is a member selected from the group consisting of (C_1-C_6) alkyl, (C_1-C_6) heteroalkyl, phenyl and substituted phenyl; and R^{14} and R^{15} are each members independently selected from the group consisting of H, (C_1-C_6) alkyl and (C_1-C_6) heteroalkyl.

- 1 **16.** A method in accordance with claim 15, wherein X and Y are
2 independently selected from the group consisting of:



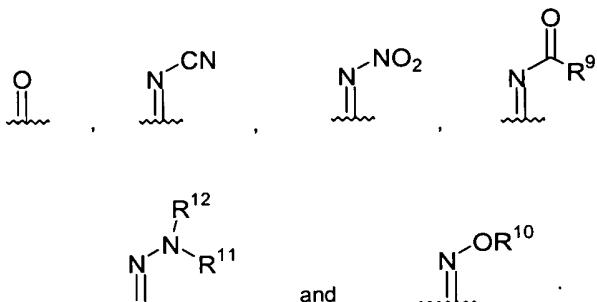
- 1 17. A method in accordance with claim 15, wherein X and Y are each
2 independently selected from the group consisting of:

a bond , —C— and —C—

3

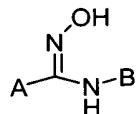
18. A method in accordance with claim 15, wherein X and Y are each a

2 bond, and M is $\text{---C}(\text{U})=\text{N}(\text{R}^7)$, wherein U is selected from the group consisting of



3

1 **19.** A method in accordance with claim **15**, said compound having the
2 formula:



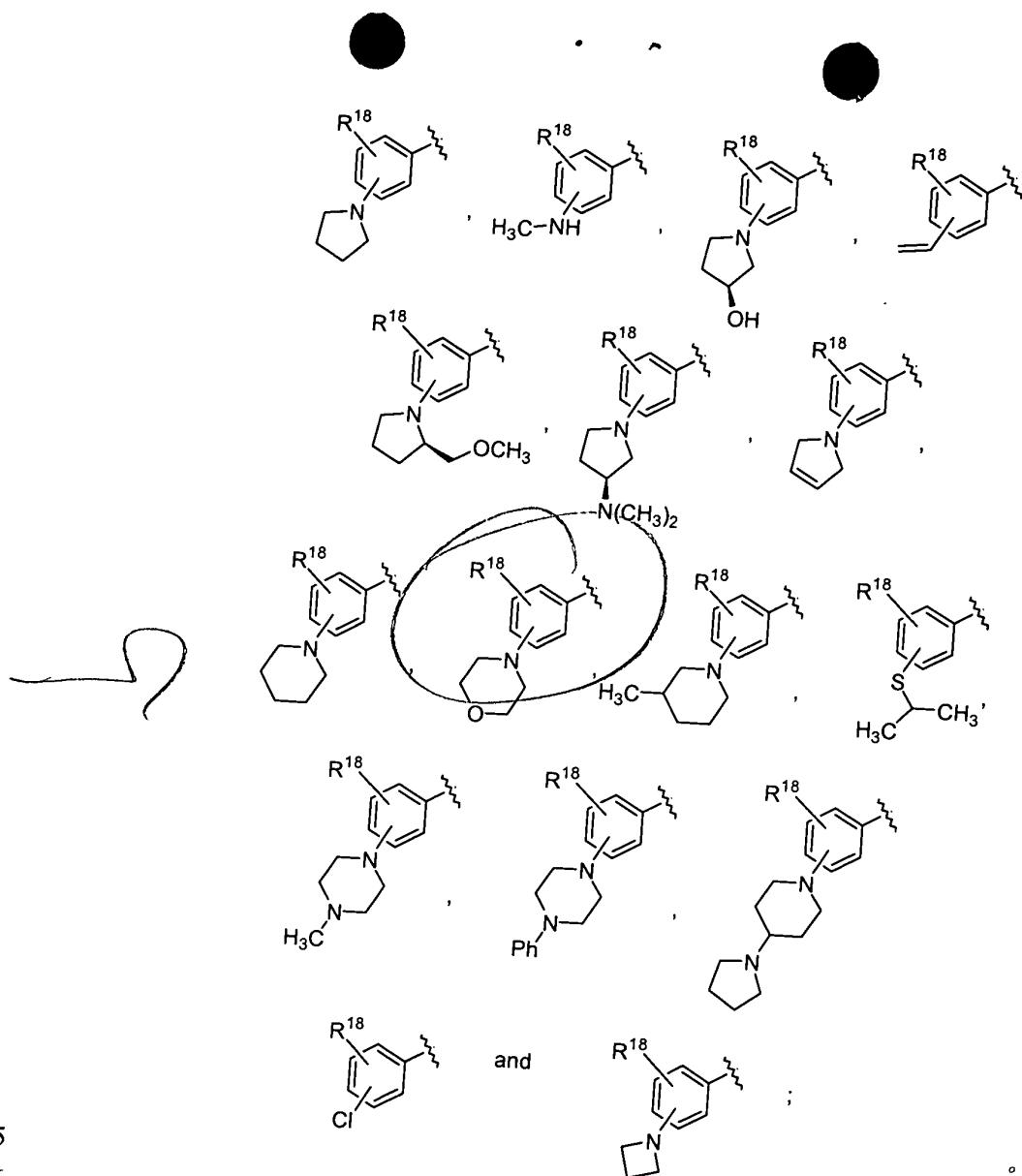
1 **20.** A method in accordance with claim 19, wherein A is a phenyl
2 group substituted with from one to three substituents selected from the group consisting
3 of (C₁-C₄)alkyl, (C₁-C₄)alkoxy, (C₁-C₄)haloalkyl, (C₁-C₄)haloalkoxy, halogen, nitro,
4 phenyl, naphthyl, pyrrolyl, pyrazolyl and -NR¹⁶R¹⁷ wherein R¹⁶ and R¹⁷ are
5 independently selected from the group consisting of hydrogen, (C₁-C₈)alkyl and (C₁-
6 C₈)heteroalkyl or are combined with the nitrogen atom to which each is attached to form
7 a four-, five-, six- or seven-membered ring optionally having additional heteroatoms as
8 ring members and optionally having additional substituents selected from the group
9 consisting of (C₁-C₈)alkyl, (C₁-C₈)heteroalkyl and phenyl.

1 **21.** A method in accordance with claim 19, wherein B is a phenyl
2 group substituted with from one to three substituents selected from the group consisting
3 of (C₁-C₄)alkyl, (C₁-C₄)alkoxy, (C₁-C₄)heteroalkyl, (C₁-C₄)haloalkyl, (C₁-C₄)haloalkoxy,
4 halogen, phenyl and phenoxy.

22. A method in accordance with claim 19, wherein A is a phenyl group substituted with from one to three substituents selected from the group consisting

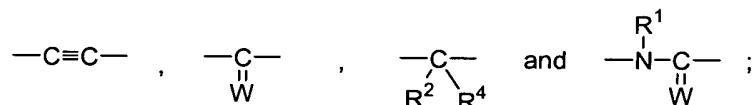
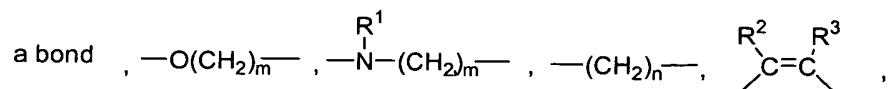
3 of (C₁-C₄)alkyl, (C₁-C₄)alkoxy, (C₁-C₄)haloalkyl, (C₁-C₄)haloalkoxy, halogen and –
4 NR¹⁶R¹⁷ wherein R¹⁶ and R¹⁷ are independently selected from the group consisting of
5 hydrogen, (C₁-C₈)alkyl and (C₁-C₈)heteroalkyl or are combined with the nitrogen atom to
6 which each is attached to form a four-, five-, six- or seven-membered ring optionally
7 having additional heteroatoms as ring members and optionally having additional
8 substituents selected from the group consisting of (C₁-C₈)alkyl, (C₁-C₈)heteroalkyl and
9 phenyl, and B is a phenyl group substituted with from one to three substituents selected
10 from the group consisting of (C₁-C₄)alkyl, (C₁-C₄)alkoxy, (C₁-C₄)heteroalkyl, (C₁-
11 C₄)haloalkyl, (C₁-C₄)haloalkoxy, halogen, phenyl and phenoxy.

1 **23.** A method in accordance with claim 19, wherein A is selected from
2 the group consisting of substituted or unsubstituted thienyl, substituted or unsubstituted
3 furanyl, substituted or unsubstituted indolyl, substituted or unsubstituted benzothienyl,
4 substituted or unsubstituted benzothienyl, and radicals of the formulae:

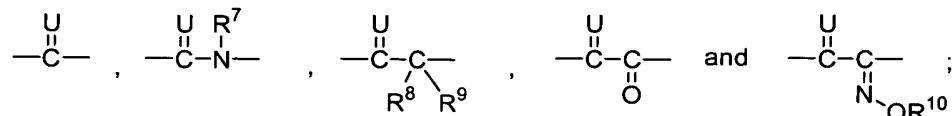


1
2 **24.** A method in accordance with claim 23, wherein A is selected from
3 the group consisting of substituted or unsubstituted benzofuranyl, substituted or
4 unsubstituted benzothienyl, substituted or unsubstituted indolyl, substituted or
5 unsubstituted benzimidazolyl, substituted or unsubstituted benzthiazolyl and substituted
or unsubstituted benzoxazolyl.

1
2 **25.** A composition comprising a pharmaceutically acceptable excipient
in admixture with a compound having the formula:

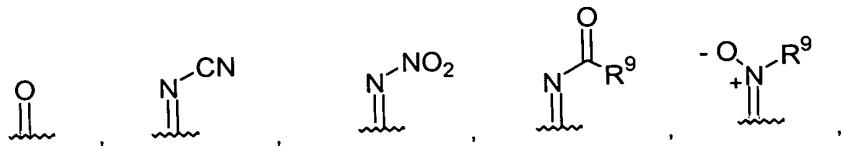


10 with the proviso that at least one of X or Y is a bond, and wherein
11 the subscript m is 0, 1 or 2;
12 the subscript n is 1 or 2;
13 W is a member selected from the group consisting of O, N-OR⁵, N-NR¹R²,
14 N-NR¹C(O)R⁶ and N-OC(O)R⁶;
15 R¹, R², R³ and R⁵ are each members independently selected from the group
16 consisting of H, (C₁-C₆)alkyl, aryl, aryl(C₁-C₆)alkyl, heteroaryl and
17 heteroaryl(C₁-C₆)alkyl;
18 R⁴ is a member selected from the group consisting of H, OH, (C₁-C₆)alkyl,
19 (C₁-C₆)alkoxy, amino, (C₁-C₆)alkylamino, di(C₁-C₆)alkylamino,
20 (C₁-C₆)acylamino, and (C₁-C₈)heteroalkyl; and
21 R⁶ is a member selected from the group consisting of H, (C₁-C₆)alkyl, (C₁-
22 C₆)alkoxy, amino, (C₁-C₆)alkylamino, di(C₁-C₆)alkylamino and
23 (C₁-C₈)heteroalkyl; and
24 M is a divalent linking group selected from the group consisting of:



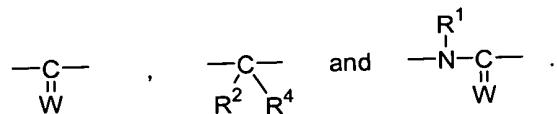
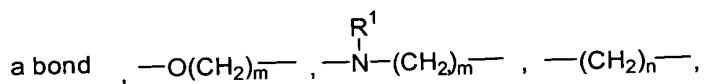
wherein

27 U is a member selected from the group consisting of:



29 R⁷ and R⁸ are each members independently selected from the group
 30 consisting of H, OH, (C₁-C₆)alkyl, (C₁-C₆)alkoxy, amino, (C₁-
 31 C₆)alkylamino and di(C₁-C₆)alkylamino;
 32 R⁹ is a member selected from the group consisting of H, (C₁-C₆)alkyl, aryl,
 33 aryl(C₁-C₆)alkyl, heteroaryl and heteroaryl(C₁-C₆)alkyl;
 34 R¹⁰ is a member selected from the group consisting of H, (C₁-C₆)alkyl,
 35 aryl(C₁-C₆)alkyl and heteroaryl(C₁-C₆)alkyl; and
 36 R¹¹ and R¹² are members independently selected from the group consisting
 37 of H, (C₁-C₆)alkyl, aryl(C₁-C₆)alkyl, heteroaryl(C₁-C₆)alkyl,
 38 C(O)R¹⁴, C(O)OR¹⁴, C(O)-NR¹⁴R¹⁵, S(O)₂R¹³ and S(O)₂NR¹⁴R¹⁵;
 39
 40 wherein
 41 R¹³ is a member selected from the group consisting of (C₁-C₆)alkyl,
 42 (C₁-C₆)heteroalkyl, phenyl and substituted phenyl; and
 43 R¹⁴ and R¹⁵ are each members independently selected from the group
 44 consisting of H, (C₁-C₆)alkyl and (C₁-C₆)heteroalkyl.

1 26. A composition in accordance with claim 25, wherein X and Y are
 2 independently selected from the group consisting of:



3

1 27. A composition in accordance with claim 25, wherein X and Y are
 2 each independently selected from the group consisting of:

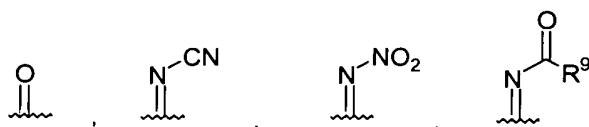
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3

a bond , —C—
W and —C—
R² R⁴

1 **28.** A composition in accordance with claim 25, wherein X and Y are

2 each a bond, and M is —C—^U_{R⁷}, wherein U is selected from the group consisting of

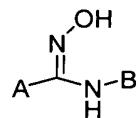


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2 **29.** A composition in accordance with claim 25, said compound having
the formula:



3

1 **30.** A composition in accordance with claim 29, wherein A is a phenyl
2 group substituted with from one to three substituents selected from the group consisting
3 of (C₁-C₄)alkyl, (C₁-C₄)alkoxy, (C₁-C₄)haloalkyl, (C₁-C₄)haloalkoxy, halogen, nitro,
4 phenyl, naphthyl, pyrrolyl, pyrazolyl and -NR¹⁶R¹⁷ wherein R¹⁶ and R¹⁷ are
5 independently selected from the group consisting of hydrogen, (C₁-C₈)alkyl and (C₁-
6 C₈)heteroalkyl or are combined with the nitrogen atom to which each is attached to form
7 a four-, five-, six- or seven-membered ring optionally having additional heteroatoms as
8 ring members and optionally having additional substituents selected from the group
9 consisting of (C₁-C₈)alkyl, (C₁-C₈)heteroalkyl and phenyl.

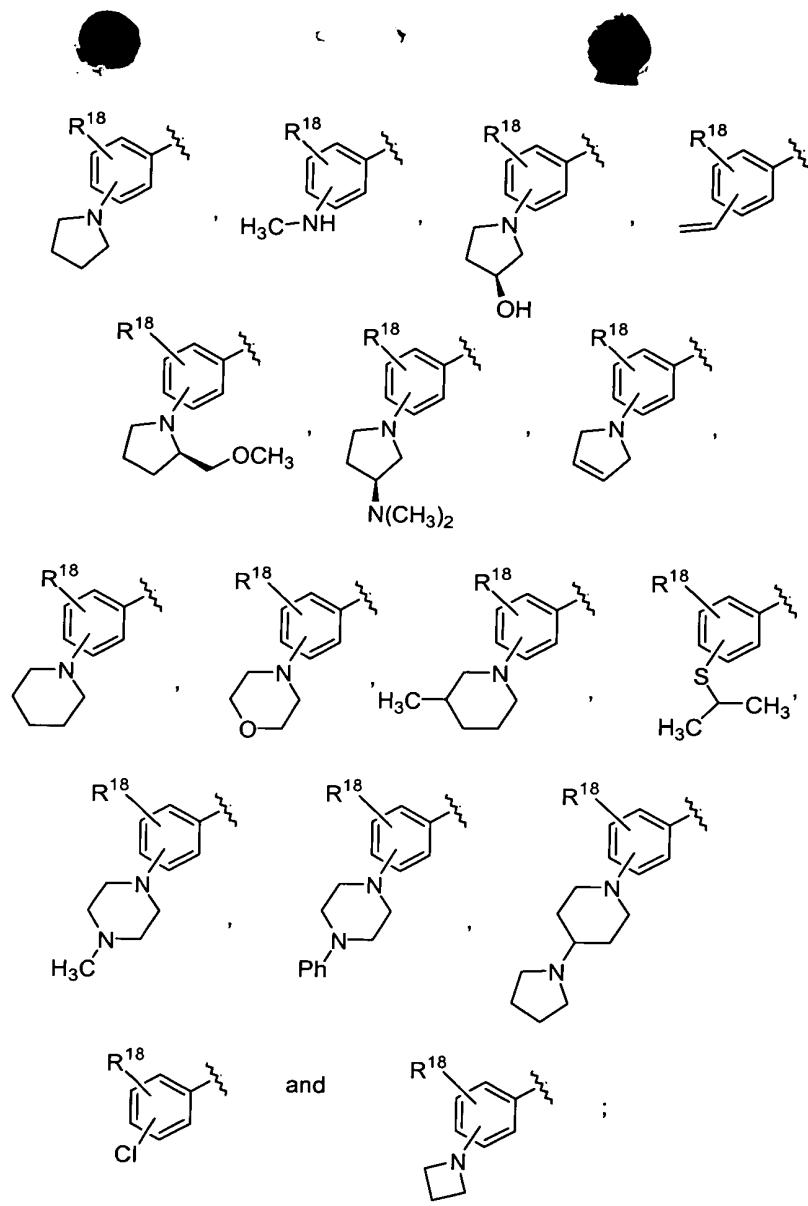
1

2 **31.** A composition in accordance with claim 29, wherein B is a phenyl
3 group substituted with from one to three substituents selected from the group consisting
4 of (C₁-C₄)alkyl, (C₁-C₄)alkoxy, (C₁-C₄)heteroalkyl, (C₁-C₄)haloalkyl, (C₁-C₄)haloalkoxy,
5 halogen, phenyl and phenoxy.

1 **32.** A composition in accordance with claim 29, wherein A is a phenyl
2 group substituted with from one to three substituents selected from the group consisting
3 of (C₁-C₄)alkyl, (C₁-C₄)alkoxy, (C₁-C₄)haloalkyl, (C₁-C₄)haloalkoxy, halogen and –
4 NR¹⁶R¹⁷ wherein R¹⁶ and R¹⁷ are independently selected from the group consisting of
5 hydrogen, (C₁-C₈)alkyl and (C₁-C₈)heteroalkyl or are combined with the nitrogen atom to
6 which each is attached to form a four-, five-, six- or seven-membered ring optionally
7 having additional heteroatoms as ring members and optionally having additional
8 substituents selected from the group consisting of (C₁-C₈)alkyl, (C₁-C₈)heteroalkyl and
9 phenyl, and B is a phenyl group substituted with from one to three substituents selected
10 from the group consisting of (C₁-C₄)alkyl, (C₁-C₄)alkoxy, (C₁-C₄)heteroalkyl, (C₁-
11 C₄)haloalkyl, (C₁-C₄)haloalkoxy, halogen, phenyl and phenoxy.

1 **33.** A composition in accordance with claim 29, wherein A is selected
2 from the group consisting of substituted or unsubstituted thienyl, substituted or
3 unsubstituted furanyl, substituted or unsubstituted indolyl, substituted or unsubstituted
4 benzothienyl, substituted or unsubstituted benzothienyl, and radicals of the formulae:

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- 6 R¹⁸ is a member selected from the group consisting of (C₁-C₄)alkyl, (C₁-C₄)alkoxy, (C₁-C₄)heteroalkyl, (C₁-C₄)haloalkyl, (C₁-C₄)haloalkoxy and halogen.

- 1 34. A composition in accordance with claim 33, wherein A is selected
 2 from the group consisting of substituted or unsubstituted benzofuranyl, substituted or
 3 unsubstituted benzothienyl, substituted or unsubstituted indolyl, substituted or
 4 unsubstituted benzimidazolyl, substituted or unsubstituted benzthiazolyl and substituted
 5 or unsubstituted benzoxazolyl.

wherein